

Appl. No. 10/763,718

Response to Office action dated November 8, 2006

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JAN 08 2007Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented): A system for cutting a traveling web of paper that is being wound onto a first spool and transferring the paper web onto a second spool by feeding turn-up tape into a nip between the second spool and the paper web, comprising:  
a transfer track for transporting the turn-up tape beneath the paper web and to a position adjacent to the nip;  
a drive assembly capable of driving the turn-up tape along the transfer track toward the nip, wherein the drive is capable of being powered by both manual power and motor power;  
at least a first clutch that engages a drive shaft during motor power operation; and  
at least a second clutch that engages a hand crank that engages the drive shaft during manual power operation, wherein when one clutch is engaged, the other is allowed to slip on the drive shaft and not engage.
2. (Original): The system of claim 1, wherein the drive assembly comprises a drive shaft coupled to a drive wheel, the drive assembly also comprises an engaging wheel that is capable of engaging the turn-up tape between the drive wheel and the engaging wheel such that rotating the drive shaft in a predetermined direction drives the turn-up tape along the transfer track toward the nip.
3. (Original): The system of claim 2, wherein manual power is supplied to the drive assembly by a hand crank capable of rotating the drive shaft.

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4. (Previously presented): A system for cutting a traveling web of paper that is being wound onto a first spool and transferring the paper web onto a second spool by feeding turn-up tape into a nip between the second spool and the paper web, comprising:

(a) a transfer track for transporting the turn-up tape beneath the paper web and to a position adjacent to the nip; and

(b) a drive assembly capable of driving the turn-up tape along the transfer track toward the nip, the drive assembly comprising

(i) a drive shaft coupled to a drive wheel,

(ii) an engaging wheel that is capable of engaging the turn-up tape between the drive wheel and the engaging wheel such that rotating the drive shaft in a predetermined direction drives the turn-up tape along the transfer track toward the nip,

(iii) a hand crank capable of rotating the drive shaft, and

(iv) a directional clutch comprising a first pair of directional clutches coupled to the hand crank and the drive shaft, wherein the first pair of directional clutches engage and rotate the drive shaft when the hand crank is rotated in a predetermined direction and do not engage the drive shaft when the hand crank is not rotated,

wherein the drive is capable of being powered by both manual power and motor power, and wherein manual power is supplied to the drive assembly by the hand crank.

5. (Original): The system of claim 2, wherein motor power is supplied to the drive assembly by an electric motor capable of rotating the drive shaft.

6. (Previously presented): A system for cutting a traveling web of paper that is being wound onto a first spool and transferring the paper web onto a second spool by feeding turn-up tape into a nip between the second spool and the paper web, comprising:

(a) a transfer track for transporting the turn-up tape beneath the paper web and to a position adjacent to the nip; and

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(b) a drive assembly capable of driving the turn-up tape along the transfer track toward the nip, the drive assembly comprising

- (i) a drive shaft coupled to a drive wheel,
- (ii) an engaging wheel that is capable of engaging the turn-up tape between the drive wheel and the engaging wheel such that rotating the drive shaft in a predetermined direction drives the turn-up tape along the transfer track toward the nip,
- (iii) a directional clutch comprising a first pair of directional clutches coupled to a hand crank and the drive shaft for manual power,
- (iv) a drive pulley coupled to the drive shaft by a second pair of directional clutches;
- (v) a belt in rotational contact with the drive pulley;

wherein the drive is capable of being powered by both manual power and motor power, and wherein motor power is supplied by the electric motor rotating the drive shaft by rotating the belt.

7. (Previously presented): The system of claim 6, wherein the second pair of directional clutches are coupled to the drive pulley and the drive shaft, and wherein the second directional clutches engage and rotate the drive shaft when the driven pulley is rotated in a predetermined direction and do not engage the drive shaft when the driven pulley is not rotated.

8. (Original): The system of claim 1, wherein the transfer track comprises at least in part a V-shaped groove capable of containing the turn-up tape, the V-shaped groove comprising a first side wall and a second side wall at an acute angle from the first side wall.

9. (Previously presented): The system of claim 8, wherein the second side wall comprises a concave portion.

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10. (Original): The system of claim 8, wherein the V-shaped groove is covered at least in part by a flexible seal.
11. (Original): The system of claim 1, further comprising a pneumatic control system, wherein the operation of the system is controlled by the pneumatic control system.
12. (Original): The system of claim 11, further comprising a computer, whereby the operation of the pneumatic control system is controlled by a computer when the drive is powered by motor power.
13. (Previously presented): A system for cutting a traveling web of paper that is being wound onto a first spool and transferring the paper web onto a second spool by feeding turn-up tape into a nip between the second spool and the paper web, comprising: a transfer track for transporting the turn-up tape beneath the paper web and to a position adjacent to the nip, wherein the transfer track comprises at least in part a V-shaped groove capable of containing the turn-up tape, the V-shaped groove comprising a first side wall and a second side wall at an acute angle from the first side wall, wherein the second side wall comprises a concave portion, wherein the V-shaped groove is covered at least in part by a flexible seal; and a drive assembly capable of driving the turn-up tape along the transfer track toward the nip.
14. (Original): The system of claim 13, wherein the drive is capable of being powered by manual power or motor power.
15. (Original): The system of claim 14, wherein the drive assembly comprises a drive shaft coupled to a drive wheel, the drive assembly also comprises an engaging wheel that is capable of engaging the turn-up tape between the drive wheel and the engaging wheel such

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that rotating the drive shaft in a predetermined direction drives the turn-up tape along the transfer track toward the nip.

16. (Original): The system of claim 15, wherein manual power is supplied to the drive assembly by a hand crank capable of rotating the drive shaft.

17. (Original): The system of claim 16, further comprising a first pair of directional clutches coupled to the hand crank and the drive shaft, wherein the first directional clutches engage and rotate the drive shaft when the hand crank is rotated in a predetermined direction and do not engage the drive shaft when the hand crank is not rotated.

18. (Original): The system of claim 15, wherein motor power is supplied to the drive assembly by an electric motor capable of rotating the drive shaft.

19. (Original): The system of claim 18, wherein the electric motor rotates the drive shaft by rotating a belt, wherein the belt is in rotational contact with a driven pulley that is coupled to the drive shaft by a second pair of directional clutches.

20. (Original): The system of claim 19, wherein the second pair of directional clutches are coupled to the driven pulley and the drive shaft, and wherein the second directional clutches engage and rotate the drive shaft when the driven pulley is rotated in a predetermined direction and do not engage the drive shaft when the driven pulley is not rotated.

21. Cancelled

22. Cancelled